THORLABS

FINAL INSPECTION REPORT
1x2 Wavelength Combiner (WDM)

Item #: WD6513F
SN: T022788

Center Wavelength
White Port: 1300 nm
Red Port: 650 nm
Maximum Optical Power[a]
With Connectors or Bare Fiber: 300 mW
Spliced: 0.5 W
Fiber Type: Corning SMF-28E+

Test Data			
Port Jacket Color Red[b]			
Wavelength Range	630-680 nm		
Insertion Loss	≤ 1 dB (Typical)		
Transmission	≥ 80 % (Typical)		
Port Jacket Color White[c]			
Wavelength	1220 nm	1300 nm	1380 nm
Transmission[d]	92.80%	97.46%	N/A[f]
Insertion Loss[e]	0.32 dB	0.11 dB	N/A[f]

a. Specifies the maximum power allowed through the component. Performance and reliability under high power conditions must be determined within the user's setup.

b. Single mode operation in this wavelength range is not guaranteed due to the fiber cut-off wavelength. Specifications by design.

c. All values are measured at room temperature without connectors. The operating range of this channel is indicated by the shaded region in the graphs on the next page.

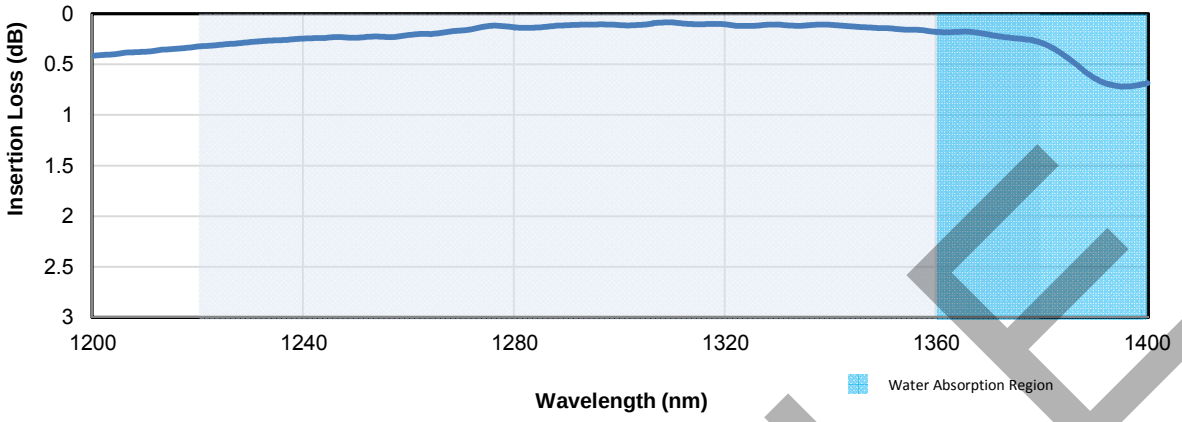
d. Calculated from measured insertion loss data below.

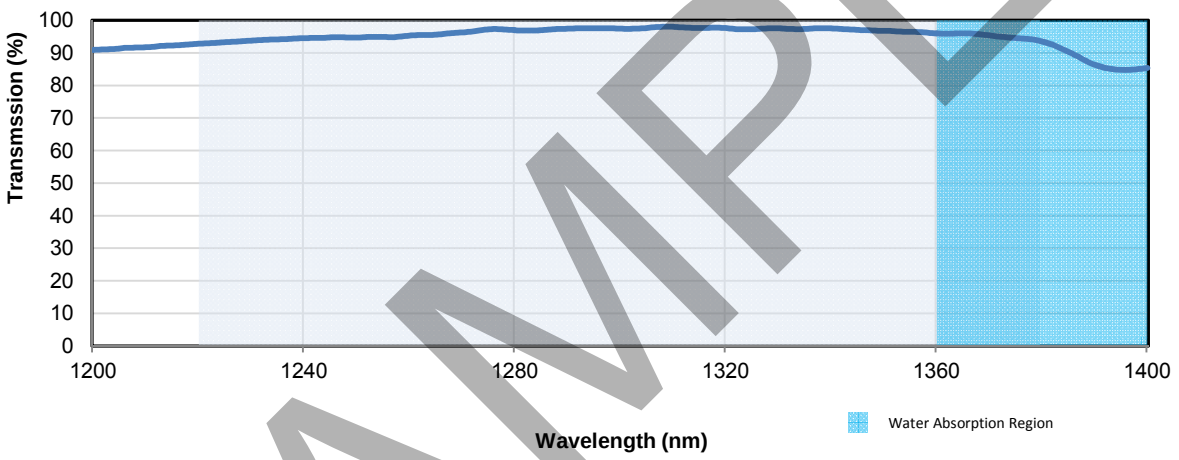
e. Ratio of the input power to the output power for each port of the wavelength combiner (WDM).

f. This value is not available due to the water absorption region centered around 1383 nm (refer to the test data plots on the next page

Verified by: _____

Test Data





This wavelength combiner (WDM) operation is only guaranteed over the specified bandwidth as defined by the colored regions above. Thorlabs displays a wider wavelength range to provide insight into how this particular device would perform if used outside its guaranteed operating range. The out-of-band performance can vary from device to device. Please note that due to the cut-off wavelength of SMF-28e+ fiber, single mode operation is not guaranteed below 1260 nm.